

Application No.: 09/908,731
Amendment Dated October 14, 2003
Response to the Office Action of July 14, 2003

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

1. (Currently Amended): A transflective liquid crystal display device comprising a liquid crystal element composed of liquid crystal sandwiched between a first substrate and a second substrate, and a transflective layer installed on an inside of the first substrate,

wherein the transflective layer includes transparent portions for transmitting light and an untransparent portion surrounding the transparent portions, wherein the untransparent portion is a thin metal film and the transparent portions are an oxide film of a thin metal film having transparent portions formed by means of anodic oxidation.

2. (Currently Amended): A transflective liquid crystal display device according to claim 1, further comprising a liquid crystal element composed of liquid crystal sandwiched between a first substrate and a second substrate, and a transflective layer installed on an inside of the first substrate, a first polarizing film disposed on an outside of the second substrate of the liquid crystal element, a second polarizing film and a backlight, disposed in sequence on an outside of the first substrate, wherein the transflective layer is a thin metal film having transparent portions formed by means of anodic oxidation.

3. (Currently Amended): A transflective liquid crystal display device according to claim 2, wherein [comprising] the transflective layer and first electrodes are disposed on an inner face of the first substrate, [and] second electrodes are disposed on an inner face of the second substrate, [wherein] the liquid crystal is nematic liquid crystal of twisted

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alignment, a first optical compensatory element is disposed between the first polarizing film and the second substrate, and a second optical compensatory element is disposed between the first substrate and the second polarizing film.

4. (Previously Presented) : A transflective liquid crystal display device according to claim 3, wherein the nematic liquid crystal is supertwisted nematic liquid crystal having a twist angle in a range of 180 to 260°.

5. (Currently Amended): A transflective liquid crystal display device according to claim 1, wherein pits and projections are provided on a surface of ~~an~~ the untransparent portion of the transflective layer, thereby forming a scattering layer.

6. (Original): A transflective liquid crystal display device according to claim 1, wherein a scattering layer is installed on an outside of the second substrate of the liquid crystal element.

7. (Original): A transflective liquid crystal display device according to claim 3, wherein the first optical compensatory element is composed of one sheet of retardation film, or a plurality of sheets of retardation films.

8. (Original): A transflective liquid crystal display device according to claim 3, wherein the first optical compensatory element is composed of a twisted retardation film.

9. (Original): A transflective liquid crystal display device according to claim 3, wherein the first optical compensatory element is composed of a twisted retardation film, and one sheet of retardation film or a plurality of sheets of retardation films.

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10. (Original): A transreflective liquid crystal display device according to claim 1, wherein color filters in a plurality of colors are installed on either the first substrate or the second substrate of the liquid crystal element.

11. (Currently Amended): A transreflective liquid crystal display device according to claim 1,

wherein the transreflective layer is a thin aluminum film provided with transparent portions made of the oxide film of the thin metal film is an aluminum oxide.

12. (Canceled)

13. (Currently Amended): A transreflective liquid crystal display device according to claim 1, wherein an oxide film of a thin metal film formed by anodic oxidation is provided on an untransparent portion of the transreflective layer the thin metal film of the untransparent portion.

14. (Previously Presented): A transreflective liquid crystal display device according to claim 4, wherein crossover points of the first electrodes and the second electrodes, opposed to each other, inside the liquid crystal element constitute respective pixels, and the transparent portions of the transreflective layer are provided at positions corresponding to the respective pixels.

15. (Original): A transreflective liquid crystal display device according to claim 14, wherein an area ratio of the transparent portions to the transreflective layer is in a range of 5 to 30%.

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16. (Original): A transflective liquid crystal display device according to claim 14, wherein each of the transparent portions of the transflective layer is formed in a slit shape at a position corresponding to a plurality of the pixels in succession.

17. (Original): A transflective liquid crystal display device according to claim 16, wherein an area ratio of the transparent portions to the transflective layer is in a range of 5 to 30%.

18. (Original): A transflective liquid crystal display device according to claim 1, wherein a protective film formed of a transparent and insulating material is installed for covering the transflective layer on the first substrate of the liquid crystal element.

19. (Previously Presented): A transflective liquid crystal display device according to claim 3, wherein a protective film formed of a transparent and insulating material is installed between the transflective layer and the first electrodes, on the first substrate of the liquid crystal element.

20. (Canceled)